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JN0-221

Automation and DevOps, Associate (JNCIA-DevOps)



## Exam A

### QUESTION 1

What is the advantage of using the REST API?

- A. The REST API enables Junos devices to participate in other REST management system environments
- B. The REST API is enabled by default on all Junos devices
- C. By default, the REST API retrieves data from a Junos device in CSV format
- D. By default, the REST API retrieves data from a Junos device in HTML format

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos-space18.1/service-automation/topics/reference/general/junos-space-service-now-device-mgmt-overview.html](https://www.juniper.net/documentation/en_US/junos-space18.1/service-automation/topics/reference/general/junos-space-service-now-device-mgmt-overview.html)

### QUESTION 2

Click the exhibit button.

```
---
- name: Gathering Junos facts
  hosts: router1
  connection: local
  gather_facts: no
  roles:
    - Juniper.junos
  vars_prompt:
    - name: USERNAME
      prompt: Username
      private: no
    - name: USERPASS
      prompt: password
      private: yes
  tasks:
    - name: Get Junos facts
      junos_get_facts:
        host: "{{ inventory_hostname }}"
        user: "{{ USERNAME }}"
        passwd: "{{ USERPASS }}"
        register: junos
    - name: Print the Junos facts
      debug:
        var: junos
```



Which type of file is shown in the exhibit?

- A. Puppet manifest
- B. XML file
- C. Ansible playbook
- D. XSLT file

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos-ansible/topics/task/operational/junos-ansible-device-facts-retrieving.html](https://www.juniper.net/documentation/en_US/junos-ansible/topics/task/operational/junos-ansible-device-facts-retrieving.html)

### QUESTION 3

Which code format is a valid example of an HTTPS `get-interface-information` method using the default port?

- A. `https://172.25.11.1:8443/api/get-interface-information`
- B. `https://172.25.11.1:3443/get-interface-information`
- C. `https://172.25.11.1:3443/rpc/get-interface-information`
- D. `https://172.25.11.1/api/get-interface-information:3443`

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos/topics/task/configuration/rest-api-submitting-post-request.html](https://www.juniper.net/documentation/en_US/junos/topics/task/configuration/rest-api-submitting-post-request.html)

#### QUESTION 4

Click the Exhibit button.

```
<rpc-reply xmlns:junos="http://xml.juniper.net/junos/20.1R0/junos">
  <software-information>
    <host-name>router</host-name>
    <product-model>mx240</product-model>
    <product-name>mx240</product-name>
    <junos-version>20.1R1.10</junos-version>
    <package-information>
      <name>os-kernel</name>
      <comment>JUNOS OS Kernel 64-bit [20200219.fb120e7_builder_stable_11]</comment>
    </package-information>
    <package-information>
      <name>os-libs</name>
      <comment>JUNOS OS libs [20200219.fb120e7_builder_stable_11]</comment>
    </package-information>
    <package-information>
      <name>os-runtime</name>
      <comment>JUNOS OS runtime [20200219.fb120e7_builder_stable_11]</comment>
    </package-information>
  </software-information>
</rpc-reply>
```



Which command produces the output shown in the exhibit?

- A. `user@router> show version | display xml`
- B. `user@router# show version | display xml`
- C. `user@router> show version | display json`
- D. `user@router> show version | display xml rpc`

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos/topics/task/operational/junos-xml-protocol-rpcs-and-xml-mapping.html](https://www.juniper.net/documentation/en_US/junos/topics/task/operational/junos-xml-protocol-rpcs-and-xml-mapping.html)

**QUESTION 5** Junos PyEZ is a microframework used to operate the Junos OS using which language?

- A. Puppet
- B. Chef
- C. Python
- D. Ruby

**Correct Answer: C**

**Section: (none)**

**Explanation****Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos-pyez/topics/concept/junos-pyez-overview.html#:~:text=Junos%20PyEZ%20is%20a%20microframework,operating%20system%20\(Junos%20OS\).](https://www.juniper.net/documentation/en_US/junos-pyez/topics/concept/junos-pyez-overview.html#:~:text=Junos%20PyEZ%20is%20a%20microframework,operating%20system%20(Junos%20OS).)

**QUESTION 6**

Click the Exhibit button.

```
{
  "interface" : "ge-1/0/1.0",
  "address" : "192.168.1.1/24"
}
```

Referring to the exhibit, this snippet of code would represent which type of data?

- A. JSON object
- B. JSON array
- C. YAML sequence
- D. YAML mapping

**Correct Answer: A**

**Section: (none)**

**Explanation****Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos-salt/topics/topic-map/junos-salt-configuration-loading-commiting.html](https://www.juniper.net/documentation/en_US/junos-salt/topics/topic-map/junos-salt-configuration-loading-commiting.html)

**QUESTION 7**

Click the Exhibit button.

```
bash$ cat site.yml
- name: Retrieve Device Information
  hosts: all
  roles:
    - Juniper.junos
  connection: local
  gather_facts: no
  tasks :
    - name: Get Junos device information
      juniper_junos_facts:

bash$ cat hosts
[all]
172.25.11.1
172.25.11.2

[all:vars]
ansible_user=lab
ansible_password=lab123
```



Referring to the exhibit, which statement about the Ansible Playbook is correct?

- A. The Ansible Playbook will report a syntax error
- B. The Ansible Playbook execution will fail
- C. The Ansible Playbook will prompt for credentials
- D. The Ansible Playbook will execute successfully

**Correct Answer: C**

**Section: (none)**

**Explanation****Explanation/Reference:**

### QUESTION 8

Click the Exhibit button.

```
Routers:
- r1
- r2
Switches:
- s1:
  - interface: "ge-0/0/0.0"
```

Referring to the exhibit, which two code blocks are an equivalent representation in JSON? (Choose two.)

A. {"Routers":["r1","r2"],"Switches":[{"s1":[{"interface":"ge-0/0/0.0"}]}]}

B. {"routers":["r1","r2"],"switches":[{"s1":[{"interface":"ge-0/0/0.0"}]}]}

```
{
  "Routers":{
    "r1",
    "r2"
  },
  "Switches":{
    {
      "s1":{
        {
          "interface": "ge-0/0/0.0"
        }
      }
    }
  }
}
```

```
{
  "Routers":[
    "r1",
    "r2"
  ],
  "Switches":[
    {
      "s1":[
        {
          "interface": "ge-0/0/0.0"
        }
      ]
    }
  ]
}
```

C.

D.



**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 9** What is the default port for NETCONF connections over SSH?

- A. 22
- B. 830
- C. 443
- D. 8080

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos/topics/reference/configuration-statement/port-edit-system-services-netconf.html#:~:text=The%20default%20SSH%20port%20\(22,in%20the%20login%20event%20script](https://www.juniper.net/documentation/en_US/junos/topics/reference/configuration-statement/port-edit-system-services-netconf.html#:~:text=The%20default%20SSH%20port%20(22,in%20the%20login%20event%20script)

**QUESTION 10** Which two statements are correct about Junos PyEZ Tables and Views?  
(Choose two.)

- A. PyEZ Tables and Views are defined using YAML
- B. The `juniper_junos_config` module enables the use of PyEZ Tables and Views
- C. PyEZ Tables and Views are defined using CSV
- D. The `juniper_junos_table` module enables the use of PyEZ Tables and Views

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos-ansible/topics/topic-map/junos-ansible-data-retrieving-using-junos-pyez-tables.html](https://www.juniper.net/documentation/en_US/junos-ansible/topics/topic-map/junos-ansible-data-retrieving-using-junos-pyez-tables.html)

**QUESTION 11** What are two popular methods of data serialization?  
(Choose two.)

- A. Python
- B. JSON
- C. SLAX
- D. YAML

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.python-guide.org/scenarios/serialization/>

**QUESTION 12**

As part of an application to manage network devices, you must query hundreds of network devices and return the unique set of IP prefixes blocked by configured firewall filters. To accomplish this task, you will require a mutable data type that contains unordered, unique elements.

Which Python data type will fulfill these requirements?

- A. dictionaries



- B. lists
- C. tuples
- D. sets

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.python.org/2/library/sets.html>

**QUESTION 13** What is a valid JSON object?

- A. "hostname:vmx-1"
- B. { "hostname": "vmx-1" }
- C. ["vmx-1:172.25.11.1"]
- D. {"vmx-1", "172.25.11.1" }

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/day-one-books/DO\\_Automating\\_SALT.pdf](https://www.juniper.net/documentation/en_US/day-one-books/DO_Automating_SALT.pdf) (53)

**QUESTION 14**

Click the Exhibit button.

```
---
- name: "Get Junos OS configuration."
  hosts: junos-all
  roles:
    - Juniper.junos
  connection: local
  gather_facts: no

  tasks:
    - name: "Get configuration"
      juniper_junos_config:
        retrieve: "committed"
        filter: "system/services"
        dest_dir: "{{ playbook_dir }}"
```



Referring to the exhibit, what will be two results of this playbook before saving it to a file? (Choose two.)

- A. to include everything but the `system/services`
- B. to retrieve the committed configuration
- C. to include only the `system/services`
- D. to retrieve the candidate configuration

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 15** Which statement about element nodes is correct?

- A. Only a single root element node is allowed
- B. Element nodes only consist of a single line of code
- C. Element nodes cannot be nested in other element nodes
- D. Only the root element node can contain other element nodes

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 16

Which two statements about DevOps are correct? (Choose two.)

- A. DevOps is a methodology that allows for frequent, quick modifications
- B. DevOps is a methodology that ensures that collaboration does not occur across organizational boundaries
- C. DevOps is a methodology used to develop software or systems
- D. DevOps is a methodology that is limited to small codebase development

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.juniper.net/us/en/products-services/what-is/devnetops/>

**QUESTION 17** Which statement is correct about Infrastructure as Code (IaC)?

- A. It is an infrastructure that runs identical operating systems
- B. It is an infrastructure where devices are entirely virtualized
- C. It is an infrastructure that is used for beta code testing
- D. It is an infrastructure where devices are managed like software

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.vmware.com/topics/glossary/content/infrastructure-as-code>

**QUESTION 18** Which two statements about Ansible are true? (Choose two.)

- A. Ansible modules only execute a change if required
- B. By default, Ansible core modules use NETCONF to connect to the remote host
- C. By default, Ansible playbooks are executed locally
- D. Ansible uses an agentless architecture

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos-ansible/topics/concept/junos-ansible-overview.html#:~:text=Ansible%20uses%20an%20agentless%20architecture,software%20on%20the%20managed%20nodes.&text=Thus%2C%20Ansible%20users%20can%20get,of%20Python%20to%20use%20Ansible](https://www.juniper.net/documentation/en_US/junos-ansible/topics/concept/junos-ansible-overview.html#:~:text=Ansible%20uses%20an%20agentless%20architecture,software%20on%20the%20managed%20nodes.&text=Thus%2C%20Ansible%20users%20can%20get,of%20Python%20to%20use%20Ansible)





**QUESTION 19** Which two Python packages use NETCONF to interact with Junos devices?  
(Choose two.)

- A. numpy
- B. jsnappy
- C. junos-eznc
- D. pyyaml

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 20** Which Python code block is an example of a context manager?

- A. 

```
while True:
    device = Device(host="vmx-1", user="lab",
passwd="lab123")
... B. try:
    device = Device(host="vmx-1",
user="lab", passwd="lab123")
... except:
    print("Unable to connect
to the vMX1")
```
- C. 

```
with Device(host="vmx-1", user="lab", passwd="lab123") as
device:
...
```
- D. 

```
for host in ["vmx-1", "vmx-2"]:
    device = Device(host=host,
user="lab", passwd="lab123")
...
```

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://packetpushers.net/using-python-context-managers/>

**QUESTION 21** Click the Exhibit button.

```
>>> print(hardware_count)
{'MX960': 10, 'SRX300': 22, 'QFX5100': 4}
```

Referring to the exhibit, what is the correct method to retrieve the value associated only with "MX960"?

- A. `hardware_count.keys()`
- B. `hardware_count.values()`
- C. `hardware_count[0]`
- D. `hardware_count["MX960"]`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22** Which two processes does Junos automation use?  
(Choose two.)

- A. chassisd
- B. jsd
- C. dcd



D. mgd

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://coggle.it/diagram/XW0atWn5-1ccZJer/t/junos-automation-stack>

**QUESTION 23**

You are using the curl tool to include multiple RPCs in a REST API request.

Which HTTP method must be used for this request?

- A. GET
- B. PUT
- C. POST
- D. HEAD

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos/topics/example/rest-api-explorer-example.html](https://www.juniper.net/documentation/en_US/junos/topics/example/rest-api-explorer-example.html)

**QUESTION 24** What are two examples of XPath axes?

(Choose two.)

- A. grandchild
- B. sibling
- C. parent
- D. grandparent



**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos/topics/concept/junos-script-automation-xpath-overview.html](https://www.juniper.net/documentation/en_US/junos/topics/concept/junos-script-automation-xpath-overview.html)

**QUESTION 25** Click the

Exhibit button.

```
{
  "interface": "ge-0/0/1.0"
}
```

Which type of data is contained in the key of the JSON object shown in the exhibit?

- A. string
- B. name
- C. integer
- D. interface

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 26** According to the Manifesto for Agile Software Development, what is the highest priority?

- A. continuous attention to technical excellence and good design enhances quality
- B. a well-documented statement of work created before the development cycle begins
- C. on-time software releases based on a quarterly or semi-annual time frame
- D. customer satisfaction obtained through continuous delivery of valuable software

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://airfocus.com/glossary/what-is-agile-manifesto/#:~:text=The%20highest%20priority%20is%20to,continuous%2C%20delivery%20of%20valuable%20software>

**QUESTION 27**

Click the Exhibit button.

```
---
- name: Retrieve interfaces configuration
  hosts: VMX-1
  roles:
    - Juniper.junos
  connection: local
  gather_facts: no

vars_prompt:
- name: USERNAME
  prompt: User name
  private: no
- name: DEVICE_PASSWORD
  prompt: Device password
  private: yes

tasks:
- name: Retrieve the configuration
  juniper_junos_config:
    user: "{{ USERNAME }}"
    passwd: "{{ DEVICE_PASSWORD }}"
    retrieve: committed
    filter: interfaces
  register: response

- name: Print the lines in the config
  debug:
    var: response.config_lines
```



Referring to the exhibit, which two statements are correct? (Choose two.)

- A. The configuration will be retrieved in JSON format
- B. The retrieved configuration will be from the Junos active configuration
- C. The retrieved configuration will be from the Junos candidate configuration
- D. The configuration will be retrieved in XML format

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 28** PyEZ supports which three connection methods?

(Choose three.)

- A. Telnet
- B. RESTCONF
- C. REST
- D. console
- E. NETCONF

**Correct Answer:** ADE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos-pyez/topics/task/program/junos-pyez-connection-methods.html#:~:text=Junos%20PyEZ%20Users.-,Connection%20Methods%20Overview,CONSOLE%20port%20on%20a%20device](https://www.juniper.net/documentation/en_US/junos-pyez/topics/task/program/junos-pyez-connection-methods.html#:~:text=Junos%20PyEZ%20Users.-,Connection%20Methods%20Overview,CONSOLE%20port%20on%20a%20device)

#### QUESTION 29

You are asked to develop a PyEZ application that will connect to multiple Junos devices using the XML API and perform an asset inventory.

Which standards-based protocol should you use to perform this task?

- A. NETCONF
- B. THRIFT
- C. gRPC
- D. MQTT

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos-pyez/topics/task/program/junos-pyez-rpcs-executing.html](https://www.juniper.net/documentation/en_US/junos-pyez/topics/task/program/junos-pyez-rpcs-executing.html)

#### QUESTION 30

Which Ansible Playbook play parameter will prevent the system from copying the playbook to the Junos devices?

- A. serial
- B. gather\_facts
- C. environment
- D. connection

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 31

Click the Exhibit button.

```
---
- name: Load and commit configuration
  hosts: R1
  roles:
    - Juniper.junos
  connection: local
  gather_facts: no

  tasks:
    - name: Load configuration and commit
      juniper_junos_config:
        load: "merge"
        src: "build_conf/{{ inventory_hostname }}/junos.conf"
      register: response
    - name: Print the response
      debug:
        var: response
```

Referring to the exhibit, where would the `junos.conf` file be found?

- A. a directory on `juniper_junos_config`
- B. a directory located on R1
- C. a local directory on the Ansible control machine
- D. a directory on the device list in `inventory_hostname`

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**



#### QUESTION 32

Click the Exhibit button.

```
Python 3.5.2 (default, Apr 16 2020, 17:47:17)
[GCC 5.4.0 20160609] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> my_list = ["a", "b", "c", "d", "e", "f", "g"]
>>> x = my_list[1:3]
>>> print(x)
```

Referring to the exhibit, what is the output from the `print(x)` line?

- A. `['b', 'c']`
- B. `['b', 'c', 'd']`
- C. `['a', 'b', 'c']`
- D. `['a', 'b']`

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 33** What is an example of correct XML syntax?

- A. `<Devices><hostname>vMX1<Devices/>`

- B. `<Devices><hostname>vMX1</hostname><Devices/>` C. `<Devices><hostname>vMX1</hostname></Devices>`  
D. `<Devices><hostname>vMX1<Devices/></hostname>`

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/day-one-books/archive/DO\\_Navigating\\_Junos\\_XML\\_Hierarchy.pdf](https://www.juniper.net/documentation/en_US/day-one-books/archive/DO_Navigating_Junos_XML_Hierarchy.pdf)

**QUESTION 34** Ansible playbooks are written in which format?

- A. XML  
B. Python  
C. JSON  
D. YAML

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos-ansible/topics/topic-map/junos-ansible-configuration-loading-committing.html#:~:text=Starting%20in%20Junos%20OS%20Release,configuration%20data%20in%20JSON%20format](https://www.juniper.net/documentation/en_US/junos-ansible/topics/topic-map/junos-ansible-configuration-loading-committing.html#:~:text=Starting%20in%20Junos%20OS%20Release,configuration%20data%20in%20JSON%20format)

**QUESTION 35**

In Python, `my_list = [1, 2, 3]` is an example of which type of operation?

- A. membership  
B. comparison  
C. assignment  
D. bitwise

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 36** Which Ansible module would be used to obtain basic information about a Junos device?

- A. `juniper_junos_facts`  
B. `juniper_junos_info`  
C. `juniper_junos_rpc`  
D. `juniper_junos_config`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://docs.ansible.com/ansible/latest/collections/junipernetworks/junos/junos\\_facts\\_module.html](https://docs.ansible.com/ansible/latest/collections/junipernetworks/junos/junos_facts_module.html)



**QUESTION 37** Which two statements about Ansible are correct?

(Choose two.)

- A. All Ansible host and group variables must be defined in the /etc/ansible/hosts directory
- B. Groups can be nested and a device is allowed to participate in multiple groups
- C. Separate host and group variable files can be used for larger environments
- D. Groups cannot be nested and a device is allowed to participate only a single group

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 38**

Click the Exhibit button.

```
<get-route-information>
<table>inet.0</table>
</get-route-information>
```

You need to translate the configuration shown in the exhibit into a PyEZ RPC call.

Which line shows the proper PyEZ syntax?

- A. `dev.rpc.get_route_information(table="inet.0")`
- B. `dev.rpc.get-route-information(table="inet.0")`
- C. `dev.rpc.get_route_information:table="inet.0"`
- D. `dev.rpc.get-route-information:table="inet.0"`



**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos-pyez/topics/task/program/junos-pyez-rpcs-executing.html](https://www.juniper.net/documentation/en_US/junos-pyez/topics/task/program/junos-pyez-rpcs-executing.html)

**QUESTION 39** What are three elements of Infrastructure as Code (IaC)?

(Choose three.)

- A. code review
- B. integration
- C. flow
- D. feedback
- E. version control

**Correct Answer:** BCE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

Click the Exhibit button.

```
---
- name: Update JunOS Configuration
  hosts: firewalls
  roles:
    - Juniper.junos
  connection: local
  gather_facts: no
  tasks:
    - name: Checking NETCONF
      wait_for:
        host: "{{ inventory_hostname }}"
        port: 830
        sleep: 30
    - name: Update Config
      juniper_junos_config:
        load: set
        src: "{{ inventory_hostname }}.conf"
        host: "{{ mgmt_ip }}"
        user: "{{ username }}"
        ssh_private_key_file: "{{ playbook_dir }}/{{ rsa_key_name }}"
        timeout: 180
      register: out
```

Referring to the exhibit, what is the function of the `register` key?

- A. to set an input value for the `juniper_junos_rpc` module
- B. to configure a global setting for the playbook
- C. to define a variable containing the return value from the module
- D. to print a result to standard out

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 41** Which statement is correct about the Junos XML API?

- A. The API uses HTTPS for securing off-box automation
- B. The API uses NETCONF for off-box automation
- C. The API only works for on-box automation tools
- D. The API is only executed when a configuration is committed

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://community.juniper.net/communities/community-home/digestviewer/viewthread?MID=72432#bm80024cfe-d18e-40c7-9798-1fd3cbf860f7>

**QUESTION 42** Which API does the Junos CLI use to modify the configuration database?

- A. REST API
- B. XML API
- C. JET API
- D. RPC API

**Correct Answer:** A



**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 43** What is the outcome of the Python a == b operator?

- A. The variables will be added together
- B. The variables are compared to determine if they have the same value
- C. The variables are compared to determine if they have different data types
- D. The variables will be subtracted from each other

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 44** You are asked to write an automation script using Python. When you execute the script, you notice that your code sends an `RpcTimeoutError` error.

In this scenario, what would be the reason for this error?

- A. The Python script was not able to connect to the Juniper device
- B. The Juniper device rejects the connection
- C. The Juniper device took too long to reply to the RPC call
- D. The RPC syntax is incorrect

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 45**

Click the Exhibit button.

```
<rpc-reply xmlns:junos="http://xml.juniper.net/junos/20.1R0/junos">
  <configuration junos:commit-seconds="1580766004" junos:commit-localtime="2020-02-03 21:40:04 UTC"
junos:commit-user="lab">
    <interfaces>
      <interface>
        <name>fxp0</name>
        <unit>
          <name>0</name>
          <family>
            <inet>
              <address>
                <name>172.25.11.1/24</name>
              </address>
            </inet>
          </family>
        </unit>
      </interface>
    </interfaces>
  </configuration>
</rpc-reply>
```

In the XML output shown in the exhibit, what is the full XPath for the IP address of the interface?

- A. /interface/unit/family/inet/address
- B. /configuration/interface/unit/family/inet/address
- C. /configuration/interfaces/interface/unit/family/inet/address/name
- D. /interfaces/interface/unit/family/inet/address

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 46** What will determine which data serialization format is used for interfacing with a system?

- A. programming language version
- B. the operating system
- C. IDE specifications
- D. the system's API

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 47

Click the Exhibit button.

```
#!/usr/bin/python

from jnpr.junos import Device
from pprint import pprint
from lxml import etree

with Device("172.25.11.1", user="lab", passwd="lab123") as dev:
    config_data = dev.rpc.get_config(filter_xml="interfaces", options={"format": "json"})

    print("Configured interfaces:")
    for interface in config_data["configuration"]["interfaces"]["interface"]:
        print(interface["name"])
```



Referring to the exhibit, which two statements about the script are correct? (Choose two.)

- A. The script prints interface information for each interface name
- B. The script prints the name of each configured interface
- C. The script retrieves the interface configuration in JSON
- D. The script retrieves the interface configuration in XML

**Correct Answer: BD**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 48

Which `curl` command will successfully retrieve interface information from a Juniper device?

- A. `curl -u "lab:lab123" https://10.200.1.1:3443/rpc/get-interface-information -X POST`
- B. `curl -u "lab:lab123" http://10.200.1.1:3000/rpc/get-interface-information -X GET`

C. `curl -u "lab:lab123" https://10.200.1.1:8443/rpc/get-interface-information -X GET`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos/topics/task/configuration/rest-api-submitting-get-request.html](https://www.juniper.net/documentation/en_US/junos/topics/task/configuration/rest-api-submitting-get-request.html)

**QUESTION 49** Which XML shorthand notation is used when no data exists between tags?

- A. `<data*>`
- B. `<data+>`
- C. `</data/>`
- D. `<data/>`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 50** Which HTTP status code indicates a response to a successful request?

- A. 302
- B. 400
- C. 500
- D. 200



**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos-space-sdk/13.1/apiref/com.juniper.junos\\_space.sdk.help/html/reference/Commonbehav.html](https://www.juniper.net/documentation/en_US/junos-space-sdk/13.1/apiref/com.juniper.junos_space.sdk.help/html/reference/Commonbehav.html)

**QUESTION 51**

Click the Exhibit button.

```
---
- name: Get device information
  hosts: R1
  roles:
    - Juniper.junos
  connection: local
  gather_facts: no

  tasks:
    - name: Get software and uptime information
      juniper_junos_rpc:
        rpcs:
          - "get-system-uptime-information"
        dest_dir: "{{ playbook_dir }}"
```

Referring to the exhibit, which statement is correct?

- A. The RPC execution output is saved to a file on the Ansible control machine
- B. The RPC execution output is not saved

- C. The RPC execution output is saved to a file on R1
- D. The RPC execution output is saved to memory on R1

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 52** Which statement about using Ansible with a Junos device is correct?

- A. Ansible modules are executed on the control server
- B. SFTP must be used to allow communication between the Ansible control server and the Junos device
- C. An Ansible agent must be installed and running on the Junos device
- D. An Ansible playbook is a set of tasks written in XML

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://dataplumber.wordpress.com/2016/10/18/ansible-and-junos/>

**QUESTION 53**

Given the `<name> username </name>` XML code, what is the information between the opening and closing tags called?

- A. name node
- B. data node
- C. text node
- D. element node



**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos/topics/concept/junos-script-automation-xml-overview.html](https://www.juniper.net/documentation/en_US/junos/topics/concept/junos-script-automation-xml-overview.html)

**QUESTION 54** Which two tools should be used to test REST APIs?  
(Choose two.)

- A. curl
- B. Puppet
- C. Chef
- D. Postman

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://rickmur.com/using-the-junos-space-rest-api/>

**QUESTION 55**

Which two statements about Junos PyEZ RPC(s) are correct? (Choose two.)

- A. PyEZ RPCs return XML data
- B. PyEZ RPCs can be used to view only the interface configuration
- C. PyEZ RPCs can be used to view the active device configuration
- D. PyEZ RPCs return CSV data

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 56** What is the purpose of an XSD file?

- A. to define the allowed elements and hierarchy of an XML document
- B. to define the scripting language of an XML document
- C. to define the security and access permissions for an XML document
- D. to define the shortcuts that can be used in an XML document

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.proficomms.cz/files/datasheets/Juniper/junosos.pdf> (p.4)

**QUESTION 57** What are two components of the Waterfall model of software development? (Choose two.)

- A. a large volume of code changes between releases
- B. a small volume of code changes between releases
- C. a short interval of time between releases
- D. a long interval of time between releases

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://resources.whitesourcesoftware.com/blog-whitesource/sdlc-software-development-life-cycle>

**QUESTION 58**

Which Junos system process handles NETCONF automation commands?

- A. snmpd
- B. eventd
- C. mgd
- D. jsd

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.oreilly.com/library/view/automating-junos-administration/9781491928875/ch01.html>

**QUESTION 59** Which two programming languages would be used for on-box scripting with Junos devices? (Choose two.)

- A. Ansible

B. Python  
C. XSLT  
D. Puppet

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://eng.juniper.net/site/global/build/operating\\_system/junos/management\\_plane/on\\_box\\_automation/index.gsp](https://eng.juniper.net/site/global/build/operating_system/junos/management_plane/on_box_automation/index.gsp)

**QUESTION 60** Which character is used to separate multiple parameters in a single REST API call?

- A. &
- B. #
- C. ?
- D. =

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.juniper.net/documentation/en\\_US/junos-space-sdk/13.1/apiref/com.juniper.junos\\_space.sdk.help/html/reference/Commonbehav.html](https://www.juniper.net/documentation/en_US/junos-space-sdk/13.1/apiref/com.juniper.junos_space.sdk.help/html/reference/Commonbehav.html)

**QUESTION 61**

Which code block shows valid YAML syntax?

- A. Switches:
  - s1
  - s2
- B. Switches:
  - s1
  - s2
- C. Switches: {s1, s2}
- D. Switches: ["s1", "s2"]



**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 62**

While conducting an automation test, you must issue a command using the `curl` tool to request the text formatted output from the `show interfaces ge-0/0/0 terse` command.

In this scenario, which command would you use?

- A. `curl -u "lab:lab123" "http://10.210.10.155:3000/rpc/get-interface-information&format=text&interface-name=ge-0/0/0&terse="`
- B. `curl -u "lab:lab123" "http://10.210.10.155:3000/rpc/get-interface-information@interface-name=ge-0/0/0?terse="`
- C. `curl -u "lab:lab123" "http://10.210.10.155:3000/rpc/get-interface-information@format=text&interface-name=ge-0/0/0?terse="`
- D. `curl -u "lab:lab123" "http://10.210.10.155:3000/rpc/get-interface-information@format=text?interface-name=ge-0/0/0&terse="`

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 63**

Click the Exhibit button.

```
<rpc-reply xmlns:junos="http://xml.juniper.net/junos/20.1R0/junos">
  <configuration junos:commit-seconds="1589295982" junos:commit-localtime="2020-05-12 15:06:22
UTC" junos:commit-user="user">
    <interfaces>
      <interface>
        <name>ge-0/0/1</name>
        <unit>
          <name>0</name>
          <family>
            <inet>
              <address>
                <name>192.168.10.1/24</name>
              </address>
            </inet>
          </family>
        </unit>
      </interface>
      <interface>
        <name>fxp0</name>
        <unit>
          <name>0</name>
          <family>
            <inet>
              <address>
                <name>172.25.11.1/24</name>
              </address>
            </inet>
          </family>
        </unit>
      </interface>
    </interfaces>
  </configuration>
</rpc-reply>
```



Referring to the exhibit, which XML XPath expression will only show the IP address XML elements?

- A. //address/name
- B. //name
- C. /name
- D. /address/name

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**